

Key Deadlines

1 March – 1 April 2012

Electronic submission of abstracts and two page synopses (IAEA-INDICO open)

1 April 2012

Submission of Forms A, B and C to the IAEA through official channels

20 August–23 September 2012

Submission of full manuscripts (IAEA-INDICO open)

16 September 2012

Submission of post-deadline papers (two page synopses)

8 October 2012

Conference commences

8 October 2012

Evaluation of post-deadline papers

13 October 2012

Conference ends

March 2013 (approximately)

Conference proceedings on CD ROM and on web site

Beginning of On-site Registration

7 October 2012

Conference Secretariat

Scientific Issues

Email address for contacts: physics@iaea.org

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IAEA FEC 2012
24th IAEA Fusion Energy Conference



24th IAEA FUSION ENERGY CONFERENCE

8–13 October 2012, San Diego, USA

Organized by the



IAEA
International Atomic Energy Agency

Hosted by the
Government of the United States of America
through the



U.S. DEPARTMENT OF
ENERGY

Office of
Science



GENERAL ATOMICS

Background

The International Atomic Energy Agency (IAEA) fosters the exchange of scientific and technical results in nuclear fusion research through its series of Fusion Energy Conferences. The 24th IAEA Fusion Energy Conference (FEC 2012) aims to provide a forum for the discussion of key physics and technology issues as well as innovative concepts of direct relevance to fusion as a source of nuclear energy.

Objective

With a number of next-step fusion devices currently being implemented — such as the International Thermonuclear Experimental Reactor (ITER) in Cadarache, France, and the National Ignition Facility (NIF) in Livermore, United States of America — and in view of the concomitant need to demonstrate the technological feasibility of fusion power plants as well as the economic viability of this method of energy production, the fusion community is now facing new challenges. The resolution of these challenges will dictate research orientations both in the present and in coming decades.

The scientific scope of FEC 2012 is, therefore, intended to reflect the priorities of this new era of fusion energy research. The conference aims to be a platform for sharing the results of research and development efforts in both national and international fusion experiments that have been shaped by these new priorities, and thereby help in pinpointing worldwide advances in fusion theory, experiments, technology, engineering, safety and socioeconomics. Furthermore, the conference will set these results against the backdrop of the requirements for a net energy producing fusion device and a fusion power plant in general, and will thus help in defining the way forward.

With the participation of international organizations such as the ITER International Organization and the European Atomic Energy Community (Euratom), as well as the collaboration of more than forty countries and several research institutes, including those working on smaller plasma devices, it is expected that this conference will, as in the past, serve to identify possibilities and means for a continuous effective international collaboration.

Programme Structure

The overall conference programme will consist of an opening session, selected overview sessions, technical sessions with invited and contributed papers, daily poster sessions and a closing session. The Nuclear Fusion Prize will be awarded during the conference.

Topics

OV	Overviews
EX/C	Magnetic Confinement Experiments: Confinement
EX/S	Magnetic Confinement Experiments: Stability
EX/W	Magnetic Confinement Experiments: Wave-plasma interactions – current drive, heating, energetic particles
EX/D	Magnetic Confinement Experiments: Plasma-material interactions – divertors, limiters, SOL
TH/C	Magnetic Confinement Theory and Modelling: Confinement
TH/S	Magnetic Confinement Theory and Modelling: Stability
TH/W	Magnetic Confinement Theory and Modelling: Wave-plasma interactions – current drive, heating, energetic particles
TH/D	Magnetic Confinement Theory and Modelling: Plasma-material interactions – divertors, limiters, SOL
ITR	ITER Activities
IFE	Inertial Fusion Experiments and Theory
ICC	Innovative Concepts
FTP	Fusion Technology and Power Plant Design
SEE	Safety, Environmental and Economic Aspects of Fusion

Target Audience

The conference aims to bring together senior scientific fusion project leaders; plasma physicists including theoreticians and experimentalists; experts in the various multidisciplinary fields of fusion science and technology; materials engineers; and operators of fusion devices.

Side Events

Exhibitions on fusion technology and satellite meetings are expected to take place during the conference.

Working Language

English

Registration Fee

No registration fee is charged to participants.

Conference Announcement and Call for Papers

The full conference announcement and call for papers is available on the IAEA conference web site: www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=41985

Electronic Submission of Abstracts and Two Page Synopses (IAEA-INDICO)

<https://fec2012.iaea.org>

Local Conference Web Site

<http://www.fec2012.com/>